

AMENDMENTS TO THE SPECIFICATION

In the Specification

Please substitute the following amended paragraph(s) and/or section(s) (deleted matter is shown by strikethrough and added matter is shown by underlining):

Page 11, lines 19-30:

A quantity of liquid will be suspended atop asperities 24 if the body forces ( $F$ ) due to gravity acting on the liquid are less than surface forces ( $f$ ) acting at the contact line with the asperities. Body forces ( $F$ ) associated with gravity may be determined according to the following formula:

$$F = \rho g h, \quad (5)$$

where ~~( $\rho$ )~~ ( $\rho$ ) is the density of the liquid, ( $g$ ) is the acceleration due to gravity, and ( $h$ ) is the depth of the liquid. Thus, for example, for a 10 meter column of water having an approximate density of 1000 kg/m<sup>3</sup>, the body forces ( $F$ ) would be:

Page 12, lines 20-26:

By equating  $F$  and  $f$  and solving for contact line density  $\Lambda$ , a critical contact line density parameter  $\Lambda_L$  may be determined for predicting ultraphobic properties in a surface:

$$\Lambda_L = \frac{-\rho g h}{\gamma \cos(\theta_{a,0} + \omega - 90^\circ)}, \quad (8)$$

where  $(\rho)$  is the density of the liquid,  $(g)$  is the acceleration due to gravity,  $(h)$  is the depth of the liquid, the surface tension of the liquid  $(\gamma)$ ,  $\omega$  is the rise angle of the side of the asperities